APALACHEE REGIONAL PARK
CROSS COUNTRY COURSE
ENVIRONMENTAL MANAGEMENT PERMIT
LEM18-00017

A Pre-Construction Conference with the County Environmental Inspector is required.
(Contact Mr. Kevin Hough at 850-606-1310 or 850-544-0825 to schedule.)

This environmental management permit authorizes construction of infrastructure (i.e. stormwater management system, gravel drives, sidewalks, etc.) associated with the proposed development on parcel ID. No.: 32-04-20-851-000 0 in Leon County, consistent with the attachments and exhibits identified below.

Attachment A: Permit Conditions
Exhibit A: Approved Plans (Permit Plan Set)
Exhibit B: Tree Mitigation Plan

The permittee should be familiar with the permit conditions and all other attachments and exhibits included in this permit prior to the commencement of development activity. Failure to conform to this permit may cause appropriate enforcement action to be taken that could include a "Stop Work Order" or a "Notice of Violation".

Approved By:

Approved By: Nawfal Ezzagaghi 10/24/2019

John Kraynak, P.E., Director
Environmental Services
MRW

Date
ATTACHMENT "A"
PERMIT CONDITIONS:
APALACHEE REGIONAL PARK
CROSS COUNTRY COURSE

GENERAL CONDITIONS:

1. The permittee shall conduct all development activity consistent with the "Environmental Management Act," Article VII, Chapter 10 of the Leon County Land Development Code. Reference Section 10-4.105.

2. *Posting of placards.* A placard indicating issuance of a valid permit shall be posted in a conspicuous place on site at all times during the development activity. Reference Section 10-4.203(c)(1).

3. *Permit and plans on-site.* A copy of the approved permit and plans (Exhibit "A" and subsequent approved contractor "Shop Drawings") shall be available on site at all times when any development activity is occurring on the site. Reference Section 10-4.203(c)(2).

4. *Notice of intent to proceed and Pre-Construction Conference.* A notice of intent to proceed shall be filed with the Director at least three (3) working days prior to initiation of any physical development activity on the site. The notice shall specify the site location and the permit number(s) applicable to the activity and shall specify the date and approximate time at which such physical development activity is to commence. A pre-construction conference will be scheduled and required prior to the commencement of any development activity. Reference Section 10-4.203(c)(3).

5. *Environmental Management Officer.* This individual shall be in responsible charge of all on-going work on the site and ensure that all work is proceeding according to the approved plans and permit. The designated environmental management officer must ensure that during such time as the officer is not personally present on the site a designated alternate remains in responsible charge of the project. For this project, the Environmental Management Officer shall be determined at the pre-construction conference. Reference Section 10-4.203(c)(6).


7. *Extensions.* Permits may be extended, by request of the applicant and approval of the Director, for successive periods of time not to exceed 36 months each, provided the request for extension is made prior to the expiration of the prior approval and provided continuous good faith efforts have been made to complete the development. Reference Section 10-4.214(1)(b).

8. *Early expiration for cause.* If no substantial and readily observable site development activity has taken place within 18 months of the issuance of the permit or, once development is started, if no such development activity occurs for any 12 consecutive months, the Director may, after notifying the permittee and providing an opportunity for hearing, determine the permit to be expired and shall so notify the permittee. Such a permit may not thereafter be extended. Reference Section 10-4.214(1)(c).
9. **Effect of permit expiration.** Once a permit has expired, no further development activity may proceed on the permitted development site unless and until a new permit is received for the development site and activity. *Reference Section 10-4.214(3).*

10. **Continued responsibility under expired permit.** An expired permit shall not relieve the permittee from the responsibility of continued compliance with this permit and the Code. Where development has commenced and no final inspection completed before expiration of a permit, the permittee may be required to submit, and obtain the Director's approval of a new environmental management permit application or an application for amendment of the expired permit. As an option, the permittee may be required to complete and maintain the landscaping, trees, or stormwater management systems and facilities which were required by the expired permits, as necessary to prevent significant adverse environmental impacts as a result of development activity which has occurred on the site. *Reference Section 10-4.214(3).*

11. **Notice of transfer of permit.** No later than ten (10) days after the sale or legal transfer of property upon which a stormwater management facility has been, or is approved to be, constructed pursuant to a permit issued by the County, a notice of transfer of permit shall be submitted to the Director. The notice shall be made using a form provided by the Director. *Reference Section 10-4.214(5)(a).*

12. **Transfer liability.** Until a proper notice of permit transfer is provided to the Director, the permittee and any other person constructing, operating, or maintaining the permitted facility shall be liable for compliance with the terms of the permit. The permittee transferring the permit shall remain liable for corrective actions required as a result of any violations occurring prior to transfer. For facilities that have received final inspection approval prior to the time of legal transfer, the original permittee shall remain liable for performance of warranty obligations as set forth in *Section 4.208(d),* absent an express assumption of liability as to such warranty obligations by the subsequent holder of the property. *Reference Section 10-4.214(5)(b).*

13. **Amendments.** Any minor change or deviation from the approved plans shall require an amendment to this permit. Substantial changes, including significant increases in impervious area, changes in intended land use, modification of stormwater management system, new phases of development, or other additions, shall not be treated as amendments, but shall require a new permit application. *Reference Section 10-4.215.*

14. **During development.** All environmental management controls and facilities shall be maintained in a manner which will ensure proper functioning and protection from unnecessary environmental degradation, throughout the development process. *Reference Section 10-4.210(a).*

15. **Post-development.** Upon completion of development activities and construction, the permittee shall ensure that each site is properly stabilized, and that swales and other stormwater management features shown in the permit are in place in a manner consistent with the permit, approved plans and specifications. *Reference Section 10-4.210(b).*

16. **Post-construction inspection.** Prior to requesting a final inspection by the Director, the permittee shall have a qualified professional to personally inspect the site and facilities and certify as provided for in *Section 10-4.208(b).*
SPECIFIC CONDITIONS:

1. **Permit Scope.** As shown in Exhibit “A” (the permit plan set), this permit authorizes the construction of infrastructure (i.e. stormwater management system, gravel drives, sidewalks, etc.) associated with the proposed development on parcel ID. No.: 32-04-20-851-000 0 in Leon County consistent with the attachments and exhibits accompanying this permit.

2. **Licensed contractors.** All excavation, grading work, and other site work shall be performed under the supervision of a certified or registered general contractor, building contractor, residential contractor, commercial or residential pool/spa contractor, or underground utility contractor, or by an excavation, grading and site contractor duly licensed by the County Contractors Licensing Board. **Reference Section 10-4.203(c)(5).**

3. **Notification of Easements.** A copy of any required easements, with proof of recording, shall be provided to the county administrator or designee prior to final inspection. Where transfer of title for any affected parcel is proposed, the owner shall provide clear information to each prospective buyer prior to execution of any contracts, about the existence, impacts, and responsibilities associated with any easements on the property. A copy of the applicable easements shall be provided by the owner to each prospective purchaser prior to closing, and the copy shall be initialed by the parties and attached to such closing documents upon execution. **Reference Section 10-4.203(c)(8).**

4. **Stormwater management facility operating permit.** No stormwater management facility shall be utilized until a stormwater management operating permit is obtained. An operating permit is not required for facilities which have as their primary function the conveyance of stormwater, facilities under construction as part of an approved development plan, and temporary facilities which are part of an erosion and sediment control plan. **Reference Section 10-4.209(a).**

5. **Required disclaimers.** Any contract for the conveyance of title to land for which stormwater management is provided by a system or facility not maintained by the County or the City of Tallahassee shall contain the following statement: "Neither Leon County nor the City of Tallahassee is responsible for the maintenance, upkeep or improvement of any stormwater management facility utilized by the land described herein. Title to this property carries with it the requirement that the current and all subsequent owners or their authorized agent obtain a stormwater management facility operating permit from the County. The owner of this property shall be legally responsible, jointly with other owners using the facility and based on pro rata share, for compliance with all stormwater management facility operating permit maintenance and operation requirements, as well as all other permit conditions, unless such maintenance and operation obligations have been specifically assumed by some other entity pursuant to Director approval and appropriate documentation recorded in the public records of Leon County." **Reference Section 10-4.210(d).**

6. **Landscape and tree maintenance, if applicable.** All landscaping, landscaped areas, landscape development, buffer areas, and trees required as part of this permit shall be maintained and used pursuant to **Sections 10-4.348(b), 10-4.355, 10-4.209(f)(1)(h), 10-4.209(g)(7) and 10-4.211** of the Land Development Code and shall be checked for compliance during the operating permit renewal process.

7. **Intergovernmental Transfer.** If at any time, the City of Tallahassee (the "City") annexes the permitted development into its corporate boundary, then this permit shall be transferred to the City with all provisions fully enforceable by the City. The City shall assume the role of the County in each provision of this permit.
8. **System Evaluation & Redesign.** At any time, should the County determine that the stormwater management system, stormwater pollution prevention plan, landscape plan, or any maintenance program is not functioning as designed, the County may request a system evaluation to determine compliance. The Permittee shall have thirty (30) days to evaluate the discrepancy and respond. Should the Permittee verify that a discrepancy exists, then the Permittee shall have sixty (60) days to redesign and implement the appropriate redesign necessary to correct the discrepancy. This process does not apply to any event of noncompliance with the permit and approved plans, in which case the enforcement provisions of the Environmental Management Act shall apply.

9. **Termination of Permit.** The requirements, responsibilities and obligations of the Permittee in the General Conditions, Specific Conditions, and Special Conditions shall never expire with this permit. The Permittee may terminate such requirements, responsibilities and obligations either by an appropriate transfer as prescribed in Paragraph 12 of the General Conditions or by closing the development in a manner guaranteeing the preservation of natural areas, conservation easement areas, and/or other protected areas. Such closure shall require the submittal and approval of a short form environmental management permit which states appropriate plans to close the project in a manner that will ensure compliance with the Environmental Management Act upon and after termination of responsibility. Reference Section 10-4.214(1)(c).

10. **Other Permits.** This permit is issued with the condition that the applicant procure and comply with all other necessary federal, state, and local agency permits, including but not limited to the Florida Department of Environmental Protection (FDEP) permit, Florida Department of Transportation (FDOT) drainage and/or access connection permits, NPDES permit and Leon County driveway connection permit. These permits must be provided to the environmental inspector prior to the start of construction. Reference Section 10-4.201(f).

11. **Construction or repair of buildings, excavation of streets and highways:** The construction, demolition, alteration or repair of any building or the excavation of streets and highways other than between the hours of 7:00 a.m. and 8:00 p.m. on weekdays and Saturdays and between 9:00 a.m. and 5:00 p.m. on Sundays. This prohibition does not apply to the delivery and installation of concrete and other materials associated with residential slab installation. In cases of emergency, construction or repair noises are exempt from this provision. Reference Section 12-56(10).
SPECIAL CONDITIONS:

As shown in Exhibit “A” (the permit plan set), this permit authorizes the construction of infrastructure (i.e. stormwater management system, gravel drives, sidewalks, etc.) associated with the proposed development on parcel ID. No.: 32-04-20-851-000 0 in Leon County consistent with the attachments and exhibits accompanying this document.

1. As used herein, the term “permittee” shall refer to Leon County. This permit may be transferred to another party in accordance with the General Conditions. Upon the Director’s approval of a Notice of Transfer of Permit, the term “permittee” shall refer to the new property owner(s) identified in this approved notice. The permittee shall ensure that all contractors and other agents authorized by the permittee to conduct the permitted development activities abide by the terms and conditions of this permit.

2. The permittee or permittee’s authorized agent shall contact the County Environmental Inspector (hereinafter “inspector”) to arrange a pre-construction conference prior to the commencement of any construction/development activities. The inspector for this project is Mr. Kevin Hough who may be contacted at 850-606-1310 or 850-544-0825.

3. Development activities involving the proposed structures, including adjacent grading, shall not commence until a building permit has been secured for such structure.

4. Additional silt fences or other sediment/erosion control devices and measures may be required, as specified by the inspector. Proposed staging areas shall be discussed with the inspector and explicitly demarcated within the site.

5. All soil excavated as part of this project shall be used on-site or properly disposed of at an approved location.

6. If prehistoric or historic artifacts, such as pottery or ceramics, projectile points, dugout canoes, metal implements, historic building materials, or any other physical remains that could be associated with Native American, early European, or American settlement are encountered at any time with the project site area, the permitted project shall cease all activities involving subsurface disturbance in the vicinity of the discovery. The applicant shall contact the Florida Department of State, Division of Historical Resources, Compliance Review Section at (850) 245-6333. Project activities shall not resume without verbal and/or written authorization. In the event that unmarked human remains are encountered during permitted activities, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes.

7. Notwithstanding the general and specific conditions contained in this permit, this project will require submittal of the following items to the Director at least 20 days prior to the permittee/applicant’s request for final inspection and ensuing request for final certificate of occupation:
   a. Stormwater Operating Permit Application
   b. Record Drawings
      i. Record drawings shall mean a complete set of permitted drawings signed and sealed by a qualified professional with final constructed grades, culvert diameters, stormwater facilities dimensions, planted landscape materials, field changes, and marked with "record drawing" on each sheet.
      ii. The qualified professional shall be responsible for the project's conformance to the permitted plans.
   c. Compliance Certification signed/sealed by a Florida licensed Professional Engineer

In the event that any condition of this permit is subject to multiple interpretations and becomes the source of conflict that cannot be resolved onsite by the contractor and the environmental inspector, the matter shall be forwarded to the Environmental Services Director for clarification/interpretation.

10/24/2019 LEM18-00017 ATTACHMENT A
(Pages are Two-Sided)
APALACHIE REGIONAL PARK
Cross Country Venue Infrastructure Improvements
LEON COUNTY, FLORIDA
ENVIRONMENTAL MANAGEMENT PERMIT
PROJECT I.D. # LEM1800017

INDEX OF SHEETS

<table>
<thead>
<tr>
<th>SHEET NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>COVER SHEET</td>
</tr>
<tr>
<td>2</td>
<td>GENERAL NOTES</td>
</tr>
<tr>
<td>3</td>
<td>PROJECT LAYOUT</td>
</tr>
<tr>
<td>4</td>
<td>EXISTING CONDITIONS</td>
</tr>
<tr>
<td>5</td>
<td>EXISTING CONDITIONS</td>
</tr>
<tr>
<td>6</td>
<td>EXISTING CONDITIONS</td>
</tr>
<tr>
<td>7</td>
<td>DETERIORATION AND EROSION CONTROL PLAN PHASE 1</td>
</tr>
<tr>
<td>8</td>
<td>EROSION CONTROL PLAN PHASE 2</td>
</tr>
<tr>
<td>9</td>
<td>SITE PLAN</td>
</tr>
<tr>
<td>10</td>
<td>SHADING AND DRAINAGE PLAN</td>
</tr>
<tr>
<td>11</td>
<td>UTILITY PLAN</td>
</tr>
<tr>
<td>12</td>
<td>UTILITY PLAN</td>
</tr>
<tr>
<td>13</td>
<td>UTILITY PLAN AND PROFILE</td>
</tr>
<tr>
<td>14</td>
<td>UTILITY PLAN AND PROFILE</td>
</tr>
<tr>
<td>15</td>
<td>SCENIC OVERLOOK NO. 2 THROUGH 5 PLAN AND PROFILE</td>
</tr>
<tr>
<td>16</td>
<td>CONSTRUCTION DETAILS</td>
</tr>
<tr>
<td>17</td>
<td>DRAINAGE PLAN AND PROFILE</td>
</tr>
<tr>
<td>18</td>
<td>STAGE PLAN AND PROFILES</td>
</tr>
<tr>
<td>19</td>
<td>POND DETAILS</td>
</tr>
<tr>
<td>20</td>
<td>UTILITY DETAILS</td>
</tr>
<tr>
<td>21</td>
<td>UTILITY DETAILS</td>
</tr>
<tr>
<td>22</td>
<td>UTILITY DETAILS</td>
</tr>
<tr>
<td>23</td>
<td>UTILITY DETAILS</td>
</tr>
<tr>
<td>24</td>
<td>EROSION CONTROL DETAILS</td>
</tr>
<tr>
<td>25</td>
<td>HARDSCAPE SITE PLAN</td>
</tr>
<tr>
<td>26</td>
<td>HARDSCAPE DETAILS</td>
</tr>
<tr>
<td>27</td>
<td>HARDSCAPE DETAILS</td>
</tr>
<tr>
<td>28</td>
<td>PLANTING PLAN</td>
</tr>
<tr>
<td>29</td>
<td>PLANTING DETAILS</td>
</tr>
<tr>
<td>30</td>
<td>PLANTING DETAILS</td>
</tr>
<tr>
<td>31</td>
<td>PLANTING DETAILS</td>
</tr>
<tr>
<td>32</td>
<td>OVERLOOK STRUCTURAL NOTES</td>
</tr>
<tr>
<td>33</td>
<td>OVERLOOK STRUCTURAL DETAILS</td>
</tr>
<tr>
<td>34</td>
<td>OVERVIEW STRUCTURAL DETAILS</td>
</tr>
</tbody>
</table>

NOTE: ALL CONSTRUCTION SHALL CONFORM TO FLORIDA DEPARTMENT OF TRANSPORTATION FY 2018-19 EDITION, DESIGN STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION UNLESS OTHERWISE SHOWN OR NOTED IN THESE PLANS.

APPROVED

PERMIT NO. LEM1800017
DATE 10/18/19

Approved By: Nawfal Ezzagaghi 10/24/2019

OCTOBER 18, 2019

DRMP JOB NUMBER 15-0513004

NOTE: ALL CONSTRUCTION SHALL CONFORM TO FLORIDA DEPARTMENT OF TRANSPORTATION FY 2018-19 EDITION, DESIGN STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION UNLESS OTHERWISE SHOWN OR NOTED IN THESE PLANS.
2. In the event the Contractor discovers any errors or omissions in the Plans or Specifications, they shall be immediately reported to the Engineer and the Project Designer. Upon discovery, any errors or omissions shall be corrected.

3. Unless otherwise noted, all Work shall be performed in accordance with all pertinent state and local regulations.

4. Unless otherwise noted, all Work shall be performed in accordance with the contractual obligations outlined in this Agreement.

5. All Work shall be performed in accordance with the contractual obligations outlined in this Agreement.

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POND NOTES:

1. UNLESS OTHERWISE SPECIFIED, STANDARD OPERATION & MAINTENANCE PROCEDURES SHALL APPLY.

2. ALL SOIL EXCAVATED TO BE USED FOR THE POND BOTTOM IS TO BE GRADED FROM THE POND TO MINIMIZE UNNECESSARY MOVEMENT AND MAINTAIN STORM WATER FLOW.

3. MATERIALS TO BE USED FOR CONSTRUCTION OF THE POND ARE TO BE CONSISTENT WITH THE REQUIREMENTS SPECIFIED IN THE SPECIFICATIONS AND CONTRACTS.

4. BEFORE THE POND IS FLOODED, THE CONTRACTOR SHALL COMPLETE A PERMITS TO ENSURE COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS.

5. ALL MATERIALS USED IN THE CONSTRUCTION OF THE POND ARE TO BE MARKED AND DATED.

6. ALL MATERIALS TO BE USED IN THE CONSTRUCTION OF THE POND ARE TO BE STORED IN A SECURE AREA.

7. ALL MATERIALS TO BE USED IN THE CONSTRUCTION OF THE POND ARE TO BE STORED IN A SECURE AREA.

8. THE POND IS TO BE FLOODED WITHIN 14 DAYS OF THE DATE OF COMPLETION OF CONSTRUCTION.

9. AFTER FLOODING, THE CONTRACTOR SHALL CONTACT THE ENGINEER TO HAVE GEO TECHNICAL OBSERVATIONS TO DETERMINE IF THE PLAN FOR FILTER PONDS IS APPROPRIATE.

10. ADDITIONAL UNDERCUT IS NECESSARY. PROVIDE MINIMUM 2 WORKING DAYS...

11. THE EXCAVATED MATERIALS SHALL BE DISPOSED OF BEYOND THE PROJECT SITE.

12. THE EXCAVATED MATERIALS SHALL BE DISPOSED OF BEYOND THE PROJECT SITE.

13. WHEN UNDERCUTTING, REMOVE ANY GRAVEL AND FILTER FABRIC ENCOUNTERED.

14. AFTER UNDERCUTTING, CONTRACTOR SHALL CONTACT ENGINEER TO HAVE GEO TECHNICAL OBSERVATIONS TO DETERMINE IF THE PLAN FOR FILTER PONDS IS APPROPRIATE.

15. UNLESS OTHERWISE SPECIFIED, STANDARD OPERATION & MAINTENANCE PROCEDURES SHALL APPLY.

16. The engineer shall observe the soil conditions to determine if additional undercut is necessary.

17. The proposed pond shall be designed to have minimum 2 working days before flooding.

18. The excavated materials shall be disposed of beyond the project site.

19. When undercutting, remove any gravel and filter fabric encountered.

20. After undercutting, the contractor shall contact the engineer to have geotechnical observations to determine if the plan for filter ponds is appropriate.
FENCE AND BUFFER AREA NOTES:

1. FENCE SHALL CROSS OVER SHARPE PROPERTY. LEON COUNTY SHALL OBTAIN AN EASEMENT FOR THIS WORK AND PROVIDE A COPY TO THE SHARPE PROPERTY OWNER. ATTACHMENT J19 MUST BE REVIEWED BY THE SHARPE PROPERTY INSPECTOR AT THE PRE-CONSTRUCTION MEETING.

2. ALL CONSTRUCTION WITHIN THE CFZ OF EXISTING TREES SHALL ADHERE TO THE APPROVED TREE MITIGATION PLAN. TREE MITIGATION PLANS MUST BE REVIEWED AND APPROVED BY LEON COUNTY.

3. NO IRRIGATION OR LANDSCAPING TO BE PLACED ALONG THIS SPA. AREA BETWEEN FENCE AND PROPERTY LINE IS NOT TO BE MAINTAINED BY LEON COUNTY.
NOTES:
1. 36" MIN. COVER REQUIRED FOR 2" FORCE MAIN.
2. WATER MAIN SHALL BE PVC C-600 OR 18 OF THE SIZE SPECIFIED ON THE PLANS.
3. GRAVITY SANITARY SEWER PIPE SHALL BE PVC SDR 35, ASTM D 3034, OF THE SIZE SPECIFIED.
4. SANITARY FORCE MAIN SHALL BE HOPE OR 25 (16 PSI).
NOTES:

1. PAVERS: BELGARD AQUA-BRIC PERMEABLE PAVER OR APPROVED EQUAL.

DIMENSIONS: 5" x 10" x 3" SHOULDER 5% MAX

4" FINISHED GRADE

2' SHOULDER MAX

2' OF 1/4" - 3/8" OPEN GRADED STONE (AASHTO #8 OR #9)

WIDTH VARIES 6' - 10' SEE PLAN FOR LOCATION

6" x 6" #10 WWF

TYPICAL CONCRETE SIDEWALK / DRIVEWAY SECTION

COFFERED CONCRETE LIMEROCK BASE MATERIAL

1" - 12" - 30" PEDESTRIAN GRATES SHALL BE DUCTILE IRON PER ASTM A538 E (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 36")

ADAPTERS CAN BE MOUNTED 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

12" - 24" DRAWING NO. 7001-110-144 FOR H-20 TRAFFIC GUIDELINES)

(4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 36"...35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC

(3) VARIABLE SUMP DEPTHS ACCORDING TO PLANS (6" MIN. ON 12" - 24", 10" MIN. ON 30" & 12" MIN. ON 36" BASED ON MANUFACTURING REQ.)

(5) ADAPTER ANGLES

(6) MEDIUM DUTY TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINES. USE AT YOUR OWN RISK. SEE DRAWING NO. 7001-110-111 FOR NON TRAFFIC INSTALLATION.

THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL NOT TO EXCEED 1.2" IN SIZE. ALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

CONCRETE NOTE: (HANDICAP SIGN ONLY)

1. ALL LETTERS SHALL BE BLACK AND 1" IN HEIGHT. LETTERS AND TO BE BURIED 6" OR 1" PAN BOTTOM.

2. TOP PORTION OF SIGN SHALL HAVE REFLECTOMAT ENGINEERING REFLECTOR 48" BACKGROUND WITH WHITE REFLECTOMAT LOGO AND BORDER.

3. BOTTOM PORTION OF SIGN SHALL HAVE A REFLECTOMAT ENGINEERING 32" WHITE BACKGROUND WITH BLACK BORDER.

4. ONE EACH REQUIRED FOR EACH PARKING SPACE

5. HEIGHT OF SIGN SHALL BE IN ACCORDANCE WITH SECTION 606 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

6. CONDITION OF HANDICAP PARKING SPACE WILL BE CONSPICUOUSLY MARKED WHITE AND WILL BE POSTED AND MAINTAINED WITH A PERMANENT MARKER OR PEELING VINYL LETTERING.

THE SIGNS AND LETTERS SHALL BE OF MATERIALS THAT WILL WITHSTAND THE ELEMENTS. THE SIGNS AND LETTERS SHALL BE IN ACCORDANCE WITH THE MUTCD, AS ADAPTED BY THE DEPARTMENT OF TRANSPORTATION.

ACCESSIBLE PARKING STRIPING
NOTE: All Type C DBS to have steel grates.
**SECTION B - B OUTLET CONTROL STRUCTURE (S-A3) DETAIL**

- Brackets are located to suit each outlet size and will maintain a minimum of 2 pipes per side.

**SECTION C - C POND TYPICAL SECTION**

- Grate Elev = 76.33'

**OVERFLOW WEIR PROFILE SECTION**

- Overfall Pipe in Flat Area
  - No well-defined Channel
  - Pipe Outlet to Flat Area

**OVERFLOW WEIR CROSS SECTION B - B**

- Grate Elev = 76.33'
- Filter Drain Trench (Typ.) 4 x 132 LF

**FILTER DRAIN TYPICAL SECTION**

- Sand Filter Inlet
- Sand Filter Outlet

**CLEANOUT TYPICAL SECTION**

- Clean-out Cap Elev. 75

**RIP-RAP APRON**

- Top of Pond Elev. = 78.0'

**SECTION A - A RIVER CONTROL STRUCTURE**

- Rip-Rap Apron
- Overflow Weir Profile Section

**PIPE OUTLET DETAIL**

- See Plans for exact locations.

**NOTES:**

- The filter fabric shall meet the following requirements:
  1. EOS is not larger than U.S. 40 (MAX)
  2. TenSile Strength = 200LB
  3. Bursting Strength = 500LB
  4. Puncture Resistance = 100LB
  5. Grab elongation = 65LB

- Conform to ASTM D-1682 or ASTM D-177

- See Plan Sheets for actual dimensions for Rip-Rap Aprons

**CLEANOUT DETAILS (SKIMMER)**

- See Plans for exact locations.

**NOTE:**

- All filter fabric, sand and any impermeable poly liner required shall be as per foot specifications.

**PIPING**

- 6" perforated pipe
- 8" solid pipe (solid or perforated)
- 0° pipe (solid or perforated)
- Pipe outlet to flat area
- Clean-out cap elev. = 75

**GRADING**

- No well-defined channel
- Overfall pipe to flat area

**OVERFLOW WEIR PROFILE SECTION**

- Overfall pipe to flat area

**OVERFLOW WEIR CROSS SECTION B - B**

- Top of Pond Inv. = 78.0'

**NOTE:**

- See Plans for exact locations.

**PLAN VIEW**

- Top of Pond Inv. = 78.0'

**ELEV. VIEW**

- Top of Pond Inv. = 78.0'

**SECTION A - A RIVER CONTROL STRUCTURE**

- Overfall pipe to flat area

**NOTE:**

- See Plans for exact locations.

**PLAN VIEW**

- Top of Pond Inv. = 78.0'

**ELEV. VIEW**

- Top of Pond Inv. = 78.0'

**SECTION A - A RIVER CONTROL STRUCTURE**

- Overfall pipe to flat area

**NOTE:**

- See Plans for exact locations.

**PLAN VIEW**

- Top of Pond Inv. = 78.0'

**ELEV. VIEW**

- Top of Pond Inv. = 78.0'

**SECTION A - A RIVER CONTROL STRUCTURE**

- Overfall pipe to flat area

**NOTE:**

- See Plans for exact locations.

**PLAN VIEW**

- Top of Pond Inv. = 78.0'

**ELEV. VIEW**

- Top of Pond Inv. = 78.0'

**SECTION A - A RIVER CONTROL STRUCTURE**

- Overfall pipe to flat area

**NOTE:**

- See Plans for exact locations.

**PLAN VIEW**

- Top of Pond Inv. = 78.0'

**ELEV. VIEW**

- Top of Pond Inv. = 78.0'
8. CURB STOPS SHALL BE THE SAME SIZE AS THE SERVICE TUBING.

7. 3/4" & 1" LONG SERVICES REQUIRE A 2" MINIMUM I.D. CASING PIPE. 1-1/2" & 2" Ø LONG SERVICES

6. ALL SERVICES REQUIRE 36" MINIMUM COVER. ALL LONG SERVICES REQUIRE 36" MIN. COVER

5. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE A MINIMUM OF 18" ON CENTER.

9. TRACE WIRE TO BE INSTALLED AS PER THIS DETAIL.

HDPE WATER SERVICE INSTALLATION NOTES:

36" (MIN) COVER

LONG SERVICE

RIGHT OF WAY LINE

FINISH GRADE 1'-0" (MAX)

RIGHT OF WAY LINE

SHORT SERVICE
LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

Other Pipe Horiz Crossings (1)
Joint Spacing @ Crossings (Full Joint Centered)

Alternate 3 ft. minimum Vacuum Sanitary Sewer Gravity or Pressure Sewer, Sanitary Force Main, Reclaimed Water (4) Water Main

12 inches is the minimum

Alternate 6 ft. minimum

(1) Water main should cross above other pipe. When water main must cross reclaimed water not regulated in Part III of Chapter 62-610, F.A.C.

NOTE: MINIMUM SEPARATION DIMENSIONS MUST BE APPROVED BY TALQUIN.
SEEDING

CONSTRUCTION SPECIFICATIONS:

SEEDING

vegetation

Permanent coverage

Vegetative Plan

Vegetative plan

Vegetative plant

Vegetative planting

Vegetative seeding

Vegetative schedule

Vegetative seeding

Vegetative plan

Vegetative planting

Vegetative seeding

Vegetative plan

Vegetative planting

Vegetative seeding

Vegetative plan

Vegetative planting

Vegetative seeding

Vegetative plan

Vegetative planting
EXISTING TRAILER TO REMAIN

"TREE CARVING" LOCATION

DRAMAN TRAIL

AWARDS STAGE

FINISH LINE

GRASSED SERVICE + DELIVERY ACCESS (30' WIDE x 60' DEPTH)
EVENT + STAFF OPERATIONS BLDG
LIMITS OF CONSTRUCTION
24' WIDE GRAVEL ACCESS DRIVE
DROP OFF AREA AT ARRIVAL
PAVED ADA PARKING STALLS (4) TOTAL SPACES PROVIDED

TRANSITION TO CRUSHED AGGREGATE TRAIL

EXISTING CONSERVATION EASEMENT DELINEATION

STORMWATER POND

SCENIC OVERLOOK

CONTINUE PEDESTRIAN CONNECTION TO EVENT DAY OVERFLOW PARKING AREA (TRANSITION TO CRUSHED AGGREGATE TRAIL)
MAINTAIN EXISTING ACCESS AT FENCE LINE
**FURNISHING SCHEDULE**

**PRE-FABRICATED METAL STRUCTURES**

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>DETAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flag Pole, Model ECH 25 Clear Finish Aluminum Flashing with Standard Accessories</td>
<td>1</td>
<td>HSF03</td>
<td></td>
</tr>
</tbody>
</table>

**SITE FURNISHINGS**

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>DETAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dero Post-Recycle Station, Color of owner</td>
<td>1</td>
<td>HSF03</td>
<td></td>
</tr>
<tr>
<td>Litter Receptacle, Pilot Rack Model CH-RM-32, 32 gallon, Receptacle with Liner, Model CH-RM-32, Plastic Dome Lid, Color Green</td>
<td>6</td>
<td>HSF03</td>
<td></td>
</tr>
<tr>
<td>Bike Rack, Dero Heavy Duty, Hose, Finish Stainless Steel</td>
<td>3</td>
<td>HSF03</td>
<td></td>
</tr>
<tr>
<td>Landscape Forms PRESS-G-Z-Z</td>
<td>6</td>
<td>HSF03</td>
<td></td>
</tr>
<tr>
<td>Presidio</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIKERACK</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRODUCT DRAWING</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**BACKLESS BENCH**

- Presidio
- Bike Rack
- Bikeway, Fix It Bike Repair Station
- Backless, Two seat unit, Arm placement
- Backless, Two seat unit, Straight, Embossed

---

**HARDWARE DETAILS**

- Wood Partners Inc.
- Landscape Architects
- Landscape Planners
- Landscape Designers

---

**CERTIFICATIONS**

- Presidio
- Bike Rack
- Bikeway, Fix It Bike Repair Station
- Backless, Two seat unit, Arm placement
- Backless, Two seat unit, Straight, Embossed

---

**NOTES**

- Color of Receptacle and Lid shall be Green.
- Mount with Base Plate with Screws Type: T-4.0.03
- Dero Foot-Recycle Station shall have Color of owner.
- Dero Heavy Duty Bike Rack shall be Finish Stainless Steel.
- Presidio shall be Finish Black Powder Coat.
- ALL Pre-Fab Metal Structures shall be Finish Stainless Steel.
- ALL Pre-Fab Metal Structures shall be Finish Stainless Steel.

---

**SPECIFICATIONS**

- Manufactured by Dero
- Model: H0052
- Finish: Black Powder Coat
- Material: Stainless Steel
- Model: H0052
- Finish: Black Powder Coat
- Material: Stainless Steel

---

**MANUFACTURER**

- Dero
- Wood Partners Inc.
- Landscape Architects
- Landscape Planners
BUFFER PLANTING SCHEDULE:

<table>
<thead>
<tr>
<th>QTY</th>
<th>BOTANICAL / COMMON NAME</th>
<th>CONTR.</th>
<th>HT</th>
<th>LAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ilex opaca / American Holly</td>
<td>FS RM</td>
<td>±75</td>
<td>2 &amp; 4</td>
</tr>
<tr>
<td>1</td>
<td>Ilex opaca / American Holly</td>
<td>FS RM</td>
<td>±100</td>
<td>2 &amp; 4</td>
</tr>
<tr>
<td>1</td>
<td>Rhododendron indicum / Formosa Azalea</td>
<td>FS RM</td>
<td>±75</td>
<td>2 &amp; 4</td>
</tr>
<tr>
<td>1</td>
<td>Rhododendron indicum / Formosa Azalea</td>
<td>FS RM</td>
<td>±100</td>
<td>2 &amp; 4</td>
</tr>
</tbody>
</table>

NOTE:
1. PRIOR TO COMMENCEMENT OF LANDSCAPE INSTALLATION FOR THE IDENTIFIED BUFFER AREAS, CONTRACTOR WILL SCHEDULE A SITE MEETING WITH THE OWNER AND OWNERS REPRESENTATIVES TO FIELD VERIFY THE LOCATION OF THE PROPOSED BUFFER PLANTS.

EXISTING TREES SERVE AS BUFFER, TOP STRIP PROVIDES MILLER EXISTING BUFFER PLANTS.
### PLANTING SCHEDULE:

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Code</th>
<th>QTY</th>
<th>Botanical / Common Name</th>
<th>Container Size</th>
<th>Contract Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>0206-01ST</td>
<td>10</td>
<td>1</td>
<td>Ilex opaca / American Holly</td>
<td>1gal</td>
<td>9/19/2019</td>
</tr>
<tr>
<td>0207-01ST</td>
<td>10</td>
<td>1</td>
<td>Ilex x attenuata / East Palatka Holly</td>
<td>2gal</td>
<td>9/19/2019</td>
</tr>
<tr>
<td>0208-01ST</td>
<td>10</td>
<td>1</td>
<td>Ilex vomitoria / Dwarf Yaupon Holly</td>
<td>2gal</td>
<td>9/19/2019</td>
</tr>
<tr>
<td>0209-01ST</td>
<td>10</td>
<td>1</td>
<td>Lantana camara / New Gold Lantana</td>
<td>1gal</td>
<td>9/19/2019</td>
</tr>
<tr>
<td>0210-01ST</td>
<td>10</td>
<td>1</td>
<td>Turf Zoysia / Empire Zoysia Turf</td>
<td>100 sq ft</td>
<td>9/19/2019</td>
</tr>
</tbody>
</table>

### PLANTING DETAIL:

1. The Contractor shall furnish all plant materials. Propagation will be as recommended by Soil Tests.
2. The Contractor shall soak, transplant, excavate and top-dress each tree placed in accordance with the manufacturer's recommendation.
3. The Contractor shall apply organic mulch according to the manufacturer's specifications to all planting beds.
4. Container stock shall be grown in containers large enough for the root system to have sufficient room to hold all the soil together firmly, but not long enough to cause root rot.
5. For designated access of existing sewer contractors to install side of the street pipes, the Contractor shall lay up the soil in all designated or disturbed areas with joints in contact with each other. All backfilled slopes greater than 5 with steel or fascia retainers.
6. All plants, materials and equipment subject to the approval of the Owner's Representative.
7. The Contractor shall not make substitutions or variations without the Owner's Representative's approval.
8. The Contractor shall maintain all planting beds including watering, pruning, mulching, weed control, lettuce removal, removal of undesirable vegetation, maintenance and reworking of beds, etc. until final acceptance by the Owner's Representative.
9. The Contractor shall keep all areas of work clean, neat and orderly. All paper surfaces are to be cleaned of soil and debris at the close of the work day.
10. Each tree shall be pruned as needed to remove all dead wood, branches or branches which are endangered. All pruning shall be in accordance with the specifications and shall preserve the natural habit and character of the trees.
11. Irrigation system to be installed on all grades, paved, roads, walks, patios and recreational facilities, and to provide 100% coverage of all landscape areas.
12. Contractor is responsible for maintaining all planting beds in addition to irrigation areas for plant establishment through warranty period.
13. The Contractor shall apply 2000 pounds of lime to planted areas at a depth of 4 inches and in accordance with the approved drainage plan, i.e., acid peat. Sand shall be applied immediately after planting of the planting. Limits of sod shall be as shown on plans. For each planting of trees, the area of planting must be free of all sod and mulch.
14. Contractor agrees that the plant material is being furnished as specified in the plans and specifications.
15. Plants with broken root balls must be set in such a manner as to allow for the roots to be placed in contact with the soil.
16. The Contractor shall verify all quantities in the planting schedule and install all plants and materials as indicated in the plans; all trees shall be planted in designated type of soil. Proper care shall be given each plant which includes all other essential materials, i.e., approved drainage plans, fertilizers, etc., labor, etc. to properly and consistently which affect their price.
17. Contractor shall state trees for approval prior to installation. Any container or relocations shall be held.
18. No tree planting shall occur on site applicable with a soil disturbance as specified by design engineer. This area shall be excluded from the approved landscape plans and drawings. The placement of trees shall be the responsibility of the Contractor.
19. The Contractor shall state the location of all trees planted in the right-of-way in the field prior to installation for review and approval by the Owner's Representative. Owner shall ensure that the installation of the right-of-way to eliminate soil disturbances.
20. Contractor shall ensure the location of all trees planted throughout the project and be held for installation in the field prior to installation for review and approval by the Owner's Representative. Contractor shall coordinate that some reconditioning of soil will occur.
21. The Contractor shall verify all quantities in the planting schedule and install all plants and materials as indicated in the plans; all trees shall be planted in designated type of soil. Proper care shall be given each plant which includes all other essential materials, i.e., approved drainage plans, fertilizers, etc., labor, etc. to properly and consistently which affect their price.
22. Contractor shall state the location of all trees planted in the field prior to installation for review and approval by the Owner's Representative. Contractor shall coordinate that some reconditioning of soil will occur.

### PLANTING NOTES:

- All materials shall be delivered and staged at the site before work commences. Delivery of plant material shall be in accordance with the approved drainage plan, i.e., acid peat. Sand shall be applied immediately after planting of the planting. Limits of sod shall be as shown on plans. For each planting of trees, the area of planting must be free of all sod and mulch.

### ATTACHMENT:

- Attachment J37
VARIES - SEE PLANT SCHEDULE FOR CLEAR TRUNK HEIGHTS

1. SHADE TREE PLANTING

1. Final tree placement to be approved by owner’s representative... assure proper drainage prior to installation.

2. Wood batten type (see enlarged detail).

3. Planting soil as specified.

4. Typical edge curve as shown.

5. Shade tree planting on slope

6. Planting in poor soils

7. Groundcover details

8. Typical edge curve as shown.

NOTES:

1. SEE PLANT SCHEDULE FOR CLEAR TRUNK HEIGHTS

2. SHADE TREE PLANTING

3. HORIZONTAL PLANT SCHEDULE FOR CLEAR TRUNK HEIGHTS

4. PLANT SCHEDULE FOR CLEAR TRUNK HEIGHTS

5. SHADE TREE PLANTING ON SLOPE

6. PLANT SCHEDULE FOR CLEAR TRUNK HEIGHTS

7. GROUNDCOVER DETAILS

8. PLANTING IN POOR SOILS

1. Final tree placement to be approved by owner’s representative.

2. Wood batten type (see enlarged detail).

3. Planting soil as specified.

4. Typical edge curve as shown.

5. Shade tree planting on slope

6. Planting in poor soils

7. Groundcover details

8. Typical edge curve as shown.
# LANDSCAPE TECHNICAL MAINTENANCE PLAN

Operations noted herein shall be performed by the Owner. Assume responsibility for proper maintenance condition and plant health as set forth in the landscape plan.

### Maintenance Operation

<table>
<thead>
<tr>
<th>Week/Month</th>
<th>JAN</th>
<th>FEB</th>
<th>MAR</th>
<th>APR</th>
<th>MAY</th>
<th>JUN</th>
<th>JUL</th>
<th>AUG</th>
<th>SEP</th>
<th>OCT</th>
<th>NOV</th>
<th>DEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mowing</td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
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</tr>
<tr>
<td>Edging</td>
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<td></td>
<td>X</td>
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<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
</tr>
</tbody>
</table>

Mow twice per month beginning April 1 through October 31. Set mower height to avoid scalping the turf. No lower than 3 inches.

Edging to edge landscape planting beds, sidewalks, and curbs within project limits.

Edging by mechanical edger, same frequency as mowing.

### Recommended Watering Schedule

#### Trees (Watering Frequency)

- <2” Caliper: As provided for in the irrigation plans / system design.
- 2-4” Caliper: As provided for in the irrigation plans / system design.
- >4” Caliper: As provided for in the irrigation plans / system design.

#### Shrubs (Watering Frequency)

Wet down shrubs weekly.

#### Watering General Notes

The Owner shall water all landscape plants and turf grass as needed after establishment to meet proper maintenance conditions as described in the landscape plan. Watering shall be the sole responsibility of the Owner and optional after a 12-month establishment period. The Owner shall water as required to ensure plant establishment using an irrigation system. Never apply irrigation if the soil is saturated. Supplemental watering is applied to encourage vigorous growth and plant establishment.

### Weed Control

Owner to weed all planting beds twice per month. Landscape areas shall be kept weed free.

### Pruning

Must maintain Florida #4 or better form. Pruning for trees, shrubs, and groundcovers to be performed in accordance with ANSI A300 guidelines and FDOT design standard index 546. All trees within medians shall be pruned to maintain sight distance for vehicles and pedestrians. Additionally, prune trees as needed to remove dead, diseased, or broken branches, fronds, and seed heads.

### Fertilization

Trees and shrubs shall be fertilized using a slow release fertilizer that contains at least 50% of the available nitrogen in a slow release form. Fertilizer analysis shall be in a NPK ratio of 2:1:1, as a rate recommended by soil fertility analysis.

Trees, shrubs, and ground covers are to be fertilized by top dressing the root zone of the plants and trees, using approved methods. All materials and performance of work shall meet Florida Friendly Best Management Practices for the Protection of Water Resources by the Green Industry and all other applicable state and federal health and safety laws.

### Litter Removal

Litter removal within the project limits. To be completed in conjunction with the mowing schedule, but immediately prior to mowing. The months of November, December, and January shall also have litter removed once per month.

### Mulching 3” Deep Fibre Bark Nuggets

Mulch should be maintained year-round. Mulch shall be free of vegetative yard waste, plastic, glass, metal, palm fronds, sand, and other foreign materials. Mulch shall be consistent in appearance. Mulch shall be free from viable non-native seed, weed, and grass seed. Maintain a continuous 3” layer of mulch in all planted and mulched areas with the exception of trees. Mulch shall not cover the root ball of any landscape tree.

### Tree Staking

Stake and Guy trees at time of installation. The Owner shall maintain, repair, and/or replace all staking materials as needed to keep trees upright and to prevent girdling. The Owner shall remove staking at the end of the one-year establishment period or upon plant establishment. Refer to landscape details for staking and guying.

### Disease and Insect Control

Owner to inspect all landscape material on a monthly basis for insects, mites, fungus, etc., and apply correct control products as needed per manufacturer’s specification; to prevent landscape material from falling below the minimum maintenance condition outlined in the landscape plan and contract documents.

### Plant Material Replacement

The Owner shall replace all dead and substandard material (see Landscape plan and contract documents) in accordance with the Environmental Management Permit.
October 3, 2019

Dyer, Riddle, Mills & Precourt
1435 E Piedmont Dr
Suite 210
Tallahassee, FL 32308

Tree mitigation for Apalachee Regional Park

The proposed construction of new overlooks, installing new force main and water lines, a privacy fence and a storm water drain pipe will impact the critical protection zones of trees in these areas.

The fence will have posts set every 8’. Holes for these posts dug within the CPZ of any tree must be dug by hand. If roots are encountered that are 3” or larger, the location of the hole should be shifted to avoid cutting these roots. No heavy equipment is to be used inside the CPZs.

The least damaging is the overlooks. The trails to the overlooks must be built at or above grade with no more than 2” of excavation. The structures are planned for post supports and these are placed sufficient distance from any tree to cause harm as long as the same treatment detailed above for the fence posts is followed.

The new water lines and force main lines will be placed in trenches along and in some places inside the roadway. Roots must be pruned prior to excavation of the trenches wherever they intersect the CPC of any tree. Tree barricades must be installed along the root pruning lines to protect the rest of the CPZs. If it is necessary to dig the trench through the root plate of a tree defined as 4 x DBH then the tree must be removed.

The storm water pipe will have minor disturbance to 2 oaks and this can be accommodated by root pruning and tree barricades.
MITIGATION REQUIREMENTS

ROOT PRUNING
Root pruning will occur prior to any excavation within the CPZ of the trees. No other work should be done between the root pruning line and the tree trunks. All pruned/cut roots exposed will be covered as soon as possible with topsoil, mulch, or other organic medium. A Certified Arborist must be on site during the excavation of the trenches. Any roots found deeper than the initial root pruning should be pruned.

WATERING
Following root pruning and through substantial completion of the project, the tree will be watered at the rate equivalent to 1" of rainfall per week. Watering will be adjusted as required by the weather conditions. A rain gauge should be installed on site and monitored weekly by the site supervisor.

TREE BARRICADES/MULCHING
Tree protection barricades or fences will be installed after the root pruning is completed. The locations of these fences are shown on the site plans for this project designed by DRMP. These fences are to prevent root and soil compaction resulting from vehicular traffic, equipment storage, or material stock piling. Under no circumstances should this barricade line be crossed. No other disturbances, including installation of any landscaping or plantings, should occur in this protected area.

SUPERVISION AND MONITORING
All arboricultural work is to be supervised by a Certified Arborist.

This mitigation plan is recommended to assist the impacted trees recovery from the root damage incurred from the proposed construction. Complete success cannot be guaranteed due to the many unknowns associated with the natural world.

Sincerely,

Bill Armstrong
Certified Arborist SO #1242